



Australian Government

Assessment Requirements for FWPSAW3230 Perform primary log breakdown

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 5.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, on at least one occasion, the individual has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- broken down logs to produce flitches or cants according to a work order
- monitored the performance of breakdown equipment
- implemented routine maintenance procedures for breakdown equipment.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- types of risk and hazards and mitigation measures associated with breaking down logs
- workplace procedures specific to breaking down logs:
 - workplace health and safety, with particular emphasis on equipment lock-out and use of personal protective equipment (PPE)
 - communication reporting lines
 - recording and reporting of processing problems and equipment faults
- environmental protection practices specific to timber processing plants:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber
- basic operations that transform logs into sawn boards:
 - sawing
 - edging
 - trimming

- distinction between primary and secondary log breakdown
- best opening face (BOF)
- purpose, operating components and operation of breakdown equipment:
 - headrig saw centre and accompanying conveying systems
- operating parameters and capability of breakdown equipment
- safety features of breakdown equipment:
 - isolation procedures
 - stop button
 - lock-out switch or system
 - hold cards
 - guards
- processing constraints and potential solutions:
 - markets
 - log supply
 - product mix
 - downstream processing options
- role of breakdown equipment in the log conversion process
- typical workflow processes for breaking down logs
- hazards associated with the operation of breakdown equipment:
 - moving equipment
 - dust
 - mobile plant
 - noise
- typical flow of log supply in and out of the sawing area
- range of cutting patterns used on logs to achieve maximum output of flitches and cants
- range of feed rates and how they affect production output and finished quality of flitches and cants
- characteristics of timber and typical log defects and the impact on the production of quality flitches and cants:
 - warp
 - wane
 - curvature
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets
- breakdown processes, feed rates and finish
- methods for assessing saw blade condition
- types of storage and labelling systems

- types of and processes for implementing routine operator maintenance activities associated with sawing operations.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber processing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - automatic, manual or semi-automated log breakdown system
 - PPE for breaking down logs
 - a selection of logs
- specifications:
 - manufacturer instructions for equipment operation and maintenance
 - work order with specific instructions for breaking down logs and despatching to downstream processing
 - template documents for recording equipment faults and maintenance requirements
 - organisational policies and procedures for breaking down logs.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>